The Claims

1. (Original) One or more computer readable media having stored thereon a plurality of instructions that, when executed by one or more processors, causes the one or more processors to perform acts including:

selecting a portion of a digital good;

selecting another portion of the digital good, wherein the other portion is to be encrypted; and

using the portion as a substitution box (S-box) when encrypting the other portion.

2. (Original) One or more computer readable-media as recited in claim 1, wherein the entire digital good is to be encrypted.

3. (Original) One or more computer readable media as recited in claim 1, wherein the using comprises determining, for each group of bits of the other portion, a new group of bits based on the portion.

4. (Original) One or more computer readable media as recited in claim 1, wherein the using comprises using bits of the portion to determine a substitution sub-portion for each sub-portion in the other portion.

5. (Original) One or more computer readable media as recited in claim 4, wherein the sub-portion comprises a byte.

6. (Original) One or more computer readable media as recited in claim 1, wherein the digital good comprises a software program.

7. (Original) One or more computer readable media as recited in claim 1, wherein the digital good includes video content.

8. (Previously presented) A method comprising:

selecting a segment of a digital good;

selecting another segment of the digital good, wherein the other segment is to be encrypted using an encryption process; and

mapping, as at least part of the encryption process, values within the other segment to new values based on the segment, wherein the mapping comprises using the segment as a substitution box (S-box) during the encryption process.

9. (Original) A method as recited in claim 8, wherein the entire digital good is to be encrypted by the encryption process.

10. (Canceled).

11. (Original) A method as recited in claim 8, wherein the mapping comprises determining, for each group of bits of the other segment, a new group of bits based on the segment.

12. (Original) A method as recited in claim 8, wherein the mapping comprises using bits of the segment to determine a new value for each value in the other segment.

13. (Original) A method as recited in claim 8, wherein the digital good comprises a software program.

14. (Original) A method as recited in claim 8, wherein the digital good includes video content.

15. (Original) A method as recited in claim 8, wherein the encryption process uses a Data Encryption Standard (DES) cipher.

16. (Original) One or more computer-readable memories comprising computer-readable instructions that, when executed by a processor, direct a computer system to perform the method as recited in claim 8.

17. (Original) A method comprising:

using at least a portion of a digital good as a substitution box (S-box).

18. (Original) A method as recited in claim 17, wherein the using comprises using the portion of the digital good as a substitution box to encrypt another portion of the digital good.

19. (Original) A method as recited in claim 18, wherein the using comprises determining, for each group of bits of the other portion, a new group of bits based on the portion.

20. (Original) A method as recited in claim 18, wherein the using comprises using a bit pattern of the portion to determine a substitution value for each value in the other portion.

21. (Original) A method as recited in claim 17, wherein the digital good comprises a software program.

22. (Original) A method as recited in claim 17, wherein the digital good includes video content.

23. (Original) A method as recited in claim 17, wherein the using comprises using the substitution box as part of a Data Encryption Standard (DES) cipher.

24. (Original) One or more computer-readable memories comprising computer-readable instructions that, when executed by a processor, direct a computer system to perform the method as recited in claim 17.

25. (Original) A production system, comprising:

a memory to store an original program; and

a production server equipped with a substitution box (S-box) protection tool that is used to augment the original program for protection purposes, the production server being configured to identify a first segment in the original program and use the first segment as an S-box when encrypting a second segment of the original program.

26. (Original) A production system as recited in claim 25, wherein the production server is further configured to use the first segment as an S-box by determining, for each group of bits of the second segment, a new group of bits based on the first segment.

27. (Original) A production system as recited in claim 25, wherein the production server is further configured to use the first segment as an S-box by using bits of the first segment to determine a substitution value for each value in the second segment.

28. (Original) A production system as recited in claim 25, wherein the production server is to encrypt the entire digital good.

29. (Original) A production system as recited in claim 25, wherein the digital good includes one or more of: a software program, audio content, and video content.

30. (Original) A production system as recited in claim 25, wherein the production server uses a Data Encryption Standard (DES) cipher to encrypt the second segment.

31. (Original) A client-server system, comprising:

a production server to use a portion of a first digital good as a substitution box (S-box) in encrypting at least a portion of a second digital good to produce a protected digital good; and

a client to store and execute the protected digital good, the client being configured to evaluate the protected digital good to determine whether the protected digital good has been tampered with.

32. (Original) A client-server system as recited in claim 31, wherein the first digital good and the second digital good are the same digital good.

33. (Original) One or more computer readable media having stored thereon a plurality of instructions that, when executed by one or more processors, causes the one or more processors to perform acts including:

decrypting at least a portion of a digital good by using another portion of the digital good as a substitution box (S-box).

34. (Original) One or more computer readable media as recited in claim 33, wherein the decrypting is based at least in part on a Data Encryption Standard (DES) cipher.

35. (Original) One or more computer readable media as recited in claim 33, wherein the decrypting comprises using bits of the other portion to determine a substitution value for each value in the portion.

36. (Original) One or more computer readable media as recited in claim 33, wherein the digital good includes one or more of: a software program, audio content, and video content.